

Comparisons of Job Characteristics

Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Associated Occupation: Power Plant Operators (51-8013)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Associated Occupation: Power Plant Operators (51-8013)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	12.8	14.8	>	Current knowledge level is likely sufficient
Chemistry	4.8	9.8	12.6	>>	Current knowledge level is likely more than sufficient
Public Safety and Security	6.9	9.7	12.7	>>	Current knowledge level is likely more than sufficient
Physics	4.3	9.3	13.2	>>	Current knowledge level is likely more than sufficient
Engineering and Technology	5.7	8.4	11.1	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Associated Occupation: Power Plant Operators (51-8013)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	12.7	11.9	0	Current skill level may be sufficient
Operation and Control	5.4	10.8	11.4	0	Current skill level may be sufficient
Quality Control Analysis	5.9	10.6	10.3	0	Current skill level may be sufficient
Troubleshooting	4.5	10.0	9.3	0	Current skill level may be sufficient
Equipment Maintenance	3.5	8.5	9.3	0	Current skill level may be sufficient
Repairing	3.4	7.9	9.0	>	Skill level is likely sufficient
Equipment Selection	3.3	6.2	7.4	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 90			
Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031) Associated Occupation: Power Plant Operators (51-8013)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Selective Attention	8.7	10.8	8.7	<	Some improvement in abilities may be required
Perceptual Speed	7.4	10.7	9.8	0	Current ability level may be sufficient
Auditory Attention	5.9	8.6	6.6	<	Some improvement in abilities may be required
Time Sharing	6.6	8.5	7.2	<	Some improvement in abilities may be required
Response Orientation	4.0	7.5	6.9	0	Current ability level may be sufficient
Rate Control	3.8	7.1	5.9	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 87
Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031) Associated Occupation: Power Plant Operators (51-8013)		
Work Activities	Exclusivity of Activity	
Adjust production equipment/machinery setup	25	
Clean equipment or machinery	20	
Collect samples for testing	58	
Control operation of compressors	76	
Maintain consistent production quality	50	
Maintain or repair industrial or related equipment/machinery	39	
Maintain production or work records	19	
Monitor production machinery/equipment operation to detect problems	27	
Operate power driven pumps	66	
Operate power generation equipment	84	
Use hand or power tools	2	
Use precision measuring tools or equipment	17	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 57

Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Associated Occupation: Power Plant Operators (51-8013)

Tools and Technologies	Exclusivity
Air circulation and parts and accessories	40
Computers	1
Conveyors and accessories	18
Data management and query software	1
Electrochemical measuring instruments and accessories	9
Gas analyzers and monitors	10
Heating equipment and parts and accessories	19
Indicating and recording instruments	2
Industry specific software	1
Pumps	9
Separators	62
Water treatment and supply equipment	21

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.